

#### DEPARTMENT OF THE NAVY

NAVAL SUPPORT ACTIVITY WASHINGTON 1411 PARSONS AVENUE ST STE. 303 WASHINGTON NAVY YARD DC 20374-5003

> 5090 Ser N4/ **559** December 9, 2016

Ms. Karen Crumlish Chief, Drinking Water Branch (3WP21) EPA Region III 1650 Arch Street Philadelphia, PA 19103-2029

Dear Karen Crumlish:

SUBJECT: REVISED TOTAL COLIFORM REPORT, WASHINGTON NAVY YARD

Enclosed is the Revised Total Coliform Report for the monitoring period November 2016 for the Washington Navy Yard.

If you have any questions or require further information, please contact Mr. Dane Bowker, Public Works Department Drinking Water Program Manager at 202-433-4191or email: dane.bowker@navy.mil.

Sincerely,

**DURANT S. GRAVES** 

Installation Environmental Program Director By direction of the Commanding Officer

Dierand & Graves

Enclosures: 1. Total Coliform Report

2. Certificate of Analysis

**Washington Navy Yard** PWS: DC0000003 **November Sampling Report** 

First Half 25 **Total Samples:** Sample Date:

22 11/2/2016 **Total Samples Negative: Total Samples Positive:** 3

Second Half

Sample Date: 11/16/2016

Sample	Sample Point	Sample Point Name	Collector Name	Compliance	Sample Colle	ction	Lab	Lab Analysis		Sample	Chlorine	рН	Temp (C)	Total	E.
Number	Identifier			Indicator			Received			Comments	Residual			Coliform	Coliform
														Analysis	Analysis
					Date	Time	Date	Date	Time		Value			Result	Result
											(mg/L)				
16K0312-01	B184	BLDG 184	Guyan Kularthne	Υ	11/2/2016	811	11/2/2016	11/3/2016	1157		0.44	7.85	19.0	N	N
16K0312-02	B211	BLDG 211	Guyan Kularthne	Υ	11/2/2016	844	11/2/2016	11/3/2016	1157		3.10	7.92	18.9	N	N
16K0312-03	B123	BLDG 123	Guyan Kularthne	Υ	11/2/2016	917	11/2/2016	11/3/2016	1157		2.90	7.95	19.6	N	N
16K0312-04	B111	BLDG 111	Guyan Kularthne	Υ	11/2/2016	943	11/2/2016	11/3/2016	1157		3.00	7.98	19.3	Р	N
16K0312-05	B105	BLDG 105	Guyan Kularthne	Υ	11/2/2016	1032	11/2/2016	11/3/2016	1157		3.30	7.98	20.3	Р	N
16K0312-06	B22	BLDG 22	Guyan Kularthne	Υ	11/2/2016	1011	11/2/2016	11/3/2016	1157		3.20	7.95	19.8	N	N
16K0312-07	B208	BLDG 208	Guyan Kularthne	Υ	11/2/2016	1204	11/2/2016	11/3/2016	1157		3.20	7.90	21.5	N	N
16K1006-01	B33	BLDG 33	Guyan Kularthne	Υ	11/16/2016	950	11/16/2016	11/17/2016	922		3.60	7.81	17.6	N	N
16K1006-02	B122	BLDG 122	Guyan Kularthne	Υ	11/16/2016	923	11/16/2016	11/17/2016	922		3.40	7.80	17.3	N	N
16K1006-03	B166	BLDG 166	Guyan Kularthne	Υ	11/16/2016	759	11/16/2016	11/17/2016	922		3.30	7.92	16.4	· N	N
16K1006-04	B183	BLDG 183	Guyan Kularthne	Υ	11/16/2016	1025	11/16/2016	11/17/2016	922		3.10	7.34	21.2	. N	N
16K1006-05	B118	BLDG 118	Guyan Kularthne	Υ	11/16/2016	1100	11/16/2016	11/17/2016	922		3.40	7.78	19.6	N	N
16K1006-06	B175	BLDG 175*	Guyan Kularthne	Υ	11/16/2016	1140	11/16/2016	11/17/2016	922		2.20	7.69	19.4	· N	N
16K1006-07	B212	BLDG 212	Guyan Kularthne	Υ	11/16/2016	852	11/16/2016	11/17/2016	922		3.30	7.84	18.6	N	N
16K1006-08	B218	BLDG 218	Guyan Kularthne	Υ	11/16/2016	824	11/16/2016	11/17/2016	922		2.80	7.95	18.6	N	N
16K0430-01	B70	BLDG 70 (U-111) +	Guyan Kularthne	Υ	11/4/2016	1002	11/4/2016	11/5/2016	1200	Resample	0.55	7.78	21.5	N	N
16K0430-02	B111	BLDG 111 +	Guyan Kularthne	Υ	11/4/2016	753	11/4/2016	11/5/2016	1200	Resample	2.90	7.99	19.4	· N	N
16K0430-03	B33	BLDG 33 (D-111) +	Guyan Kularthne	Υ	11/4/2016	813	11/4/2016	11/5/2016	1200	Resample	3.40	7.89	19.3	N	N
16K0430-04	B183	BLDG 183 (U-105) +	Guyan Kularthne	Υ	11/4/2016	929	11/4/2016	11/5/2016	1200	Resample	2.50	7.84	21.5	N	N
16K0430-05	B105	BLDG 105 +	Guyan Kularthne	Υ	11/4/2016	904	11/4/2016	11/5/2016	1200	Resample	3.20	7.96	19.3	Р	N
16K0430-06	B22	BLDG 22 (D-105) +	Guyan Kularthne	Υ	11/4/2016	838	11/4/2016	11/5/2016	1200	Resample	2.90	7.99	20.2	. N	N
16K0596-01	B183	BLDG 183 (U-105) ++	Guyan Kularthne	Υ	11/8/2016	920	11/8/2016	11/9/2016	1100	Resample	2.40	7.92	21.6	N	N
16K0596-02	B105	BLDG 105 ++	Guyan Kularthne	Υ	11/8/2016	837	11/8/2016	11/9/2016	1100	Resample	3.10	7.99	18.5	N	N
16K0596-03	B105-2	BLDG 105 ++^	Guyan Kularthne	Υ	11/8/2016	855	11/8/2016	11/9/2016	1100	Resample	3.40	7.91	18.6	N	N
16K0596-04	B22	BLDG 22 (D-105) ++	Guyan Kularthne	Υ	11/8/2016	806	11/8/2016	11/9/2016	1100	Resample	3.30	7.95	16.9	N	N

<sup>\*</sup> BLDG 36 sample site was closed for renovation - BLDG 175 was chosen as a replacement sample site

<sup>+</sup> First round of resamples taken after TC+ hits on November 2 in BLDG 105 and 111

<sup>++</sup> Second round of samples taken after TC+ hit in BLDG 105 on November 4

<sup>++^</sup> Alternate sample site in Men's Locker Room of BLDG 105 to replace kitchen sink sample site



Baltimore Division
2101 Van Deman Street • Baltimore, MD 21224

Phone: 410-633-1800 Fax: 410-633-6553 www.microbac.com

November 03, 2016 Report No.: 16K0312

#### **COVER LETTER**

Kosala De Silva Inspection Experts, Inc 9220 Rumsey Rd., Bay # 5 Columbia, MD 21045

RE: WNY

The report of analyses contains test results for samples received at Microbac Laboratories, Inc., Baltimore Division on 11/02/2016 15:00.

The enclosed results were obtained from and applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted.

All data included in this report has been reviewed and meet the applicable project and certification specific requirements, unless otherwise noted.

This report has been paginated in its entirety and shall not be reproduced except in full, without the written approval of Microbac Laboratories, Inc.

We appreciate the opportunity to service your analytical needs. If you have any questions, please feel free to contact us.

This Data Package contains the following:

- This Cover Page
- Sample Summary
- Test Results
- Certifications/Notes and Definitions
- Cooler Receipt Log
- Chain of Custody

Final report reviewed by:

Curtis B. Read/Project Manager

Report issue date

All samples received in proper condition and results conform to ISO 17025 and TNI NELAC standards unless otherwise noted.

If we have not met or exceeded your expectations, please contact Curtis B. Read/Project Manager at 410-633-1800. You may also contact Trevor Boyce, President at <a href="mailto:trevor.boyce@microbac.com">trevor.boyce@microbac.com</a>



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#### **CERTIFICATE OF ANALYSIS**

Inspection Experts, Inc 9220 Rumsey Rd., Bay # 5 Columbia, MD 21045 Project: WNY
Project Number: 15-0011-214
Project Manager: Kosala De Silva

Report: 16K0312

Reported: 11/03/2016 12:48

#### **SAMPLE SUMMARY**

Sample ID	Laboratory ID	Matrix	Туре	Date Sampled	Date Received
WNY-184	16K0312-01	Drinking Water	Grab	11/02/2016 08:11	11/02/2016 15:00
WNY-211	16K0312-02	Drinking Water	Grab	11/02/2016 08:44	11/02/2016 15:00
WNY-123	16K0312-03	Drinking Water	Grab	11/02/2016 09:17	11/02/2016 15:00
WNY-111	16K0312-04	Drinking Water	Grab	11/02/2016 09:43	11/02/2016 15:00
WNY-105	16K0312-05	Drinking Water	Grab	11/02/2016 10:32	11/02/2016 15:00
WNY-22	16K0312-06	Drinking Water	Grab	11/02/2016 10:11	11/02/2016 15:00
WNY-208	16K0312-07	Drinking Water	Grab	11/02/2016 12:04	11/02/2016 15:00

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#### **CERTIFICATE OF ANALYSIS**

Inspection Experts, Inc 9220 Rumsey Rd., Bay # 5 Columbia, MD 21045 Project: WNY
Project Number: 15-0011-214
Project Manager: Kosala De Silva

Report: 16K0312

Reported: 11/03/2016 12:48

#### **WNY-184**

#### 16K0312-01 (Drinking Water) Sampled: 11/02/2016 08:11; Type: Grab

Analyte			Result	Reporting Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
Field Analysis							<u> </u>	<u> </u>			
Analyst:	0697GK	pH:	7.85	Flow (g/min):	NA	Res. C	cl (mg/L):	0.44	GW Elev.(ft	): NA	
Temp. (C):	19.0	Turb. (ntu):	NA	D.O. (mg/L):	NA	Cond.	(umhos/cm):	NA	LEL (%):	NA	
ORP (mV):	NA	Volume (L):	NA	Flow (g/day):	NA	Salinit	ty (ppt):	NA	Ambient Te	mp. (°C):	NA
				Microba	ıc Laboratori	ies, Inc E	Baltimore				
Microbiology											
Coliform, Total	l	1	Negative		per 100ml	1.0	110216 1715	110316 1157	QLW	SM 9223B Colilert	
E. Coli		1	Negative		per 100ml	1.0	110216 1715	110316 1157	QLW	SM 9223B Colilert	

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#### **CERTIFICATE OF ANALYSIS**

Inspection Experts, Inc Project: WNY Report: 16K0312 Reported: 11/03/2016 12:48 9220 Rumsey Rd., Bay # 5 Project Number: 15-0011-214 Columbia, MD 21045

Project Manager: Kosala De Silva

#### **WNY-211**

#### 16K0312-02 (Drinking Water) Sampled: 11/02/2016 08:44; Type: Grab

				Reporting							
Analyte			Result	Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
Field Analysis											
Analyst:	0697GK	pH:	7.92	Flow (g/min):	NA	Res. C	l (mg/L):	3.1	GW Elev.(ft):	NA	
Temp. (C):	18.9	Turb. (ntu):	NA	D.O. (mg/L):	NA	Cond.	Cond. (umhos/cm):		LEL (%):	NA	
ORP (mV):	NA	Volume (L):	NA	Flow (g/day):	NA	Salinit	y (ppt):	NA	Ambient Tem	p. (°C):	NA
				Microba	nc Laboratorio	es, Inc B	altimore				
Microbiology											
Coliform, Total	I		Negative		per 100ml	1.0	110216 1715	110316 1157	QLW s	M 9223B Colilert	
E. Coli			Negative		per 100ml	1.0	110216 1715	110316 1157	QLW S	M 9223B Colilert	

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#### **CERTIFICATE OF ANALYSIS**

Inspection Experts, Inc Project: WNY Report: 16K0312 Reported: 11/03/2016 12:48 9220 Rumsey Rd., Bay # 5 Project Number: 15-0011-214

Columbia, MD 21045 Project Manager: Kosala De Silva

#### WNY-123

#### 16K0312-03 (Drinking Water) Sampled: 11/02/2016 09:17; Type: Grab

				Reporting							
Analyte			Result	Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
Field Analysis											
Analyst:	0697GK	pH:	7.95	Flow (g/min):	NA	Res. Cl	(mg/L):	2.9	GW Elev.(ft):	NA	
Temp. (C):	19.6	Turb. (ntu):	NA	D.O. (mg/L):	NA	Cond. (1	Cond. (umhos/cm):		LEL (%):	NA	
ORP (mV):	NA	Volume (L):	NA	Flow (g/day):	NA	Salinity	(ppt):	NA	Ambient Temp	o. (°C):	NA
				Microba	ac Laborator	ies, Inc Ba	ltimore				
Microbiology											

Micro	<u>bio</u>	logy	

Coliform, Total	Negative	per 100ml	1.0	110216 1715	110316 1157	QLW	SM 9223B Colilert
E. Coli	Negative	per 100ml	1.0	110216 1715	110316 1157	QLW	SM 9223B Colilert

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#### **CERTIFICATE OF ANALYSIS**

 Inspection Experts, Inc
 Project: WNY
 Report:
 16K0312

 9220 Rumsey Rd., Bay # 5
 Project Number: 15-0011-214
 Reported:
 11/03/2016 12:48

Columbia, MD 21045 Project Manager: Kosala De Silva

#### WNY-111

#### 16K0312-04 (Drinking Water) Sampled: 11/02/2016 09:43; Type: Grab

				Reporting							
Analyte			Result	Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
Field Analysis											
Analyst:	0697GK	pH:	7.98	Flow (g/min):	NA	Res. Cl	(mg/L):	3.0	GW Elev.(ft):	NA	
Temp. (C):	19.3	Turb. (ntu):	NA	D.O. (mg/L):	NA	Cond. (	umhos/cm):	NA	LEL (%):	NA	
ORP (mV):	NA	Volume (L):	NA	Flow (g/day):	NA	Salinity	(ppt):	NA	Ambient Temp	. (°C):	NA
				Microba	nc Laboratori	ies, Inc Ba	altimore				
Microbiology											

Microbiology								
		400					CM COCCOD CLUI	
Coliform, Total	Positive	per 100ml	1.0	110216 1715	110316 1157	QLW	SM 9223B Colilert	
E. Coli	Negative	per 100ml	1.0	110216 1715	110316 1157	QLW	SM 9223B Colilert	

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#### **CERTIFICATE OF ANALYSIS**

 Inspection Experts, Inc
 Project: WNY
 Report: 16K0312

 9220 Rumsey Rd., Bay # 5
 Project Number: 15-0011-214
 Reported: 11/03/2016 12:48

Columbia, MD 21045 Project Manager: Kosala De Silva

#### WNY-105

#### 16K0312-05 (Drinking Water) Sampled: 11/02/2016 10:32; Type: Grab

				Reporting							
Analyte			Result	Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
Field Analysis											
Analyst:	0697GK	pH:	7.98	Flow (g/min):	NA	Res. C	cl (mg/L):	3.3	GW Elev.(ft	): NA	
Temp. (C):	20.3	Turb. (ntu):	NA	D.O. (mg/L):	NA	Cond.	(umhos/cm):	NA	LEL (%):	NA	
ORP (mV):	NA	Volume (L): NA Flow (g/day): NA Salinity (ppt):		ty (ppt):	NA	Ambient Ter	np. (°C):	NA			
				Microb	ac Laboratori	es, Inc I	Baltimore				
Microbiology											
Coliform, Tota	1		Positive		per 100ml	1.0	110216 1715	110316 1157	QLW	SM 9223B Colilert	
E. Coli		]	Negative		per 100ml	1.0	110216 1715	110316 1157	QLW	SM 9223B Colilert	

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#### **CERTIFICATE OF ANALYSIS**

 Inspection Experts, Inc
 Project: WNY
 Report:
 16K0312

 9220 Rumsey Rd., Bay # 5
 Project Number: 15-0011-214
 Reported:
 11/03/2016 12:48

Columbia, MD 21045 Project Manager: Kosala De Silva

#### WNY-22

#### 16K0312-06 (Drinking Water) Sampled: 11/02/2016 10:11; Type: Grab

				Reporting							
Analyte			Result	Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
Field Analysis											
Analyst:	0697GK	pH:	7.95	Flow (g/min):	NA	Res. Cl	(mg/L):	3.2	GW Elev.(ft):	NA	
Temp. (C):	19.8	Turb. (ntu):	NA	D.O. (mg/L):	NA	Cond. (	(umhos/cm):	NA	LEL (%):	NA	
ORP (mV):	NA	Volume (L):	NA	Flow (g/day):	NA	Salinity	(ppt):	NA	Ambient Temp	o. (°C):	NA
				Microba	ac Laborator	ies, Inc Ba	altimore				

Microbiology							
Coliform, Total	Negative	per 100ml	1.0	110216 1715	110316 1157	QLW	SM 9223B Colilert
E. Coli	Negative	per 100ml	1.0	110216 1715	110316 1157	QLW	SM 9223B Colilert

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#### **CERTIFICATE OF ANALYSIS**

 Inspection Experts, Inc
 Project: WNY
 Report:
 16K0312

 9220 Rumsey Rd., Bay # 5
 Project Number: 15-0011-214
 Reported:
 11/03/2016 12:48

Columbia, MD 21045 Project Manager: Kosala De Silva

#### **WNY-208**

#### 16K0312-07 (Drinking Water) Sampled: 11/02/2016 12:04; Type: Grab

				Reporting							
Analyte			Result	Limit	Units	Limits Prepared		Analyzed	Analyst	Method	Notes
Field Analysis											
Analyst:	0697GK	pH:	7.90	Flow (g/min):	NA	Res. Cl (	(mg/L):	3.2	GW Elev.(ft):	NA	
Temp. (C):	21.5	Turb. (ntu):	NA	D.O. (mg/L):	NA	Cond. (umhos/cm):		NA	LEL (%):	NA	
ORP (mV):	NA	Volume (L):	NA	Flow (g/day):	NA	Salinity	(ppt):	NA	Ambient Temp	o. (°C):	NA
				Microba	ac Laboratori	ies, Inc Bal	ltimore				
Microbiology											

Microbiology								_
Coliform, Total	Negative	per 100ml	1.0	110216 1715	110316 1157	QLW	SM 9223B Colilert	
E. Coli	Negative	per 100ml	1.0	110216 1715	110316 1157	QLW	SM 9223B Colilert	

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#### **CERTIFICATE OF ANALYSIS**

Inspection Experts, IncProject: WNYReport:16K03129220 Rumsey Rd., Bay # 5Project Number: 15-0011-214Reported:11/03/2016 12:48Columbia, MD 21045Project Manager: Kosala De Silva

#### **Project Requested Certification(s):**

A2LA (Environmental)

State of Maryland (Drinking Water)

#### Analyte Certification Exception Summary

No certification exceptions

All analysis performed were analyzed under the required certification unless otherwise noted in the above summary.

#### **Certification List**

Below is a list of certifications maintained by Microbac Laboratories, Inc. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. A complete list of individual analytes pursuant to each certification below is available upon request.

Code	Description	Certification Number	Expires
Microbac La	boratories, Inc Baltimore		
A2LA1	A2LA (Biology)	410.02	04/30/2017
A2LA2	A2LA (Environmental)	410.01	04/30/2017
VA-B	Commonwealth of Virginia (NELAC) - Baltimore	460285	03/14/2017
CPSC	CPSC Testing of Childrens Products and Jewelry	1115	04/30/2017
Pb	Environmental Lead (ELLAP)	410.01	04/30/2017
MD	State of Maryland (Drinking Water)	109	06/30/2017
WV	West Virginia	054	08/31/2017
Microbac La	boratories, Inc Richmond		
VA-R	Commonwealth of Virginia (NELAC) - Richmond	460022	06/14/2017

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#### **CERTIFICATE OF ANALYSIS**

 Inspection Experts, Inc
 Project: WNY
 Report:
 16K0312

 9220 Rumsey Rd., Bay # 5
 Project Number: 15-0011-214
 Reported:
 11/03/2016 12:48

Columbia, MD 21045 Project Manager: Kosala De Silva

Project Manager: Kosala De Silva

#### Qualifiers/Notes and Definitions

#### General Definitions:

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference



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# **Cooler Receipt Log**

Cooler ID: Default Cooler		Cooler Temp: 0.90°C Work Order: 16K0312
Custody Seals Intact:	Yes	COC/Containers Agree: Yes
Containers Intact:	Yes	Correct Preservation: Yes
Received On Ice:	Yes	Correct Number of Containers Received: Yes
Radiation Scan Acceptable:	Yes	Sufficient Sample Volume for Testing: Yes
COC Present:	Yes	Samples Received in Proper Condition: Yes

**Comments:** 

Instructions for completing the Chain of Custody Record on back.

Page 1 of

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Microbac Laboratories Inc., Baltimore Division 2101 Van Deman St, Baltimore, MD 21224

Chain of Custody Record

16K0312 Comments ○ Level III\*\* O Level IV\*\* QC Pacakge ○ Level II\*\* Level I **№** Compliance O Yes Agency 44.0 N 9 W 3.2 2.9 ed By (signature) Fotal Chlorine (mg 3 w 3 9.61 20.3 ú 21.5 00 Ó 6.81 (C) (C) Requested Analysis kosala@ieinc.net 9 O RUSH\* 2 0 29.7 7.95 7.98 7.92 7.90 7.92 7.85 spose as Hd Turn Around Time 11 02 14 15:01 Report Options Standard Needed By: ✓ Email ☐ Fax Sample Disposition TC P/A SM9223B × × No. of Containers Kolevaten 4480 1204 4190 0943 1032 1180 50 Time Collected Gayan Kularathne 5 2 9 11 102 116 11 20 11 02 16 20/16 20100 240-252-0841 15-0011-214 20 20 02 Date Collected 0697GK Project Information Name: WNY = = = Number: 9 Phone: Cert ID: \*\*\* Name: Filtered Sampler Relinquished By (signature) Composite Sampled By (signature) MO DW MO MO MO MO MO \*\*\*\*Matrix\*\*\* Address: 9220 Rumsey Road, Bay #5 Name: Inspection Experts Inc. Columbia, MD 21045 Temp upon receipt(°C): nple Received on Ice or rigerated from Client: (es) / No Client Sample ID kosala@ieinc.net ossible Hazard Identification Kosala De Silva Number: 410-715-3939 Number of Containers: Cooler Number: Customer Name: Contact Email: WNY-123 WNY-105 WNY-111 WNY-208 NNY-184 NNY-211 WNY-22

Matrix Types: Air(A), Childrens Product(CP), Food(F), Paint(P), Soil/Solid (S), Oil(O), Wipe(WI), Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify)

\*\*\* Sampler certification ID needed for some agencies.

ease notify lab prior to drop off. urcharge May Apply to add'l QC Packages

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iation Scan Acceptable Yes / No

WHITE - ORIGINAL LAB

YELLOW - RECEIP

rev.121112

Received for Lab By (signature)

Date/Time

Relinquished By (signature)

Instructions for completing the Chain of Custody Record



# Baltimore Division 2101 Van Deman Street • Baltimore, MD 21224

Phone: 410-633-1800 Fax: 410-633-6553 www.microbac.com

November 21, 2016 Report No.: 16K1006

#### **COVER LETTER**

Kosala De Silva Inspection Experts, Inc 9220 Rumsey Rd., Bay # 5 Columbia, MD 21045

RE: WNY

The report of analyses contains test results for samples received at Microbac Laboratories, Inc., Baltimore Division on 11/16/2016 13:10.

The enclosed results were obtained from and applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted.

All data included in this report has been reviewed and meet the applicable project and certification specific requirements, unless otherwise noted.

This report has been paginated in its entirety and shall not be reproduced except in full, without the written approval of Microbac Laboratories, Inc.

We appreciate the opportunity to service your analytical needs. If you have any questions, please feel free to contact us.

This Data Package contains the following:

- This Cover Page
- Sample Summary
- Test Results
- Certifications/Notes and Definitions
- Cooler Receipt Log
- Chain of Custody

Final report reviewed by:

Curtis B. Read/Project Manager

Report issue date

All samples received in proper condition and results conform to ISO 17025 and TNI NELAC standards unless otherwise noted.

If we have not met or exceeded your expectations, please contact Curtis B. Read/Project Manager at 410-633-1800. You may also contact Trevor Boyce, President at <a href="mailto:trevor.boyce@microbac.com">trevor.boyce@microbac.com</a>



**Baltimore Division** 

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#### **CERTIFICATE OF ANALYSIS**

Inspection Experts, Inc 9220 Rumsey Rd., Bay # 5 Columbia, MD 21045 Project: WNY
Project Number: 15-0011-214
Project Manager: Kosala De Silva

Report: 16K1006

Reported: 11/21/2016 11:05

#### **SAMPLE SUMMARY**

Sample ID	Laboratory ID	Matrix	Туре	Date Sampled	Date Received
WNY-33	16K1006-01	Drinking Water	Grab	11/16/2016 09:50	11/16/2016 13:10
WNY-122	16K1006-02	Drinking Water	Grab	11/16/2016 09:23	11/16/2016 13:10
WNY-166	16K1006-03	Drinking Water	Grab	11/16/2016 07:59	11/16/2016 13:10
WNY-183	16K1006-04	Drinking Water	Grab	11/16/2016 10:25	11/16/2016 13:10
WNY-118	16K1006-05	Drinking Water	Grab	11/16/2016 11:00	11/16/2016 13:10
WNY-175	16K1006-06	Drinking Water	Grab	11/16/2016 11:40	11/16/2016 13:10
WNY-212	16K1006-07	Drinking Water	Grab	11/16/2016 08:52	11/16/2016 13:10
WNY-218	16K1006-08	Drinking Water	Grab	11/16/2016 08:24	11/16/2016 13:10

Microbac Laboratories, Inc. - Baltimore

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#### **CERTIFICATE OF ANALYSIS**

Inspection Experts, Inc 9220 Rumsey Rd., Bay # 5 Columbia, MD 21045 Project: WNY
Project Number: 15-0011-214
Project Manager: Kosala De Silva

Report: 16K1006

Reported: 11/21/2016 11:05

WNY-33

16K1006-01 (Drinking Water) Sampled: 11/16/2016 09:50; Type: Grab

Analyte			Result	Limit	Units	Limits Prepared	Analyzed	Analyst	Method	Notes
Field Analysis										
Analyst:	NA	pH:	7.81	Flow (g/min):	NA	Res. Cl (mg/L):	3.6	GW Elev.(ft):	NA	
Temp. (C):	17.6	Turb. (ntu):	NA	D.O. (mg/L):	NA	Cond. (umhos/cm):	NA	LEL (%):	NA	
ORP (mV):	NA	Volume (L):	NA	Flow (g/day):	NA	Salinity (ppt):	NA	Ambient Temp	. (°C):	NA

#### Microbac Laboratories, Inc. - Baltimore

Micro	bio	logy	

Coliform, Total	Negative	per 100ml	1.0	111616 1515	111716 0922	QLW	SM 9223B Colilert
E. Coli	Negative	per 100ml	1.0	111616 1515	111716 0922	QLW	SM 9223B Colilert

Microbac Laboratories, Inc. - Baltimore

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#### **CERTIFICATE OF ANALYSIS**

 Inspection Experts, Inc
 Project: WNY
 Report: 16K1006

 9220 Rumsey Rd., Bay # 5
 Project Number: 15-0011-214
 Reported: 11/21/2016 11:05

Columbia, MD 21045 Project Manager: Kosala De Silva

#### WNY-122

#### 16K1006-02 (Drinking Water) Sampled: 11/16/2016 09:23; Type: Grab

				Reporting							
Analyte			Result	Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
Field Analysis											
Analyst:	NA	pH:	7.80	Flow (g/min):	NA	Res. Cl	(mg/L):	3.4	GW Elev.(ft):	NA	
Temp. (C):	17.3	Turb. (ntu):	NA	D.O. (mg/L):	NA	Cond.	Cond. (umhos/cm):		LEL (%):	NA	
ORP (mV):	NA	Volume (L):	NA	Flow (g/day):	NA	Salinity	(ppt):	NA	Ambient Temp	o. (°C):	NA
Microbiology				Microba	ac Laboratori	ies, Inc B	altimore				

Michobiology								
Coliform, Total	Negative	per 100ml	1.0	111616 1515	111716 0922	QLW	SM 9223B Colilert	
E. Coli	Negative	per 100ml	1.0	111616 1515	111716 0922	QLW	SM 9223B Colilert	

Microbac Laboratories, Inc. - Baltimore

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#### **CERTIFICATE OF ANALYSIS**

 Inspection Experts, Inc
 Project: WNY
 Report: 16K1006

 9220 Rumsey Rd., Bay # 5
 Project Number: 15-0011-214
 Reported: 11/21/2016 11:05

Columbia, MD 21045 Project Manager: Kosala De Silva

#### **WNY-166**

#### 16K1006-03 (Drinking Water) Sampled: 11/16/2016 07:59; Type: Grab

				Reporting							
Analyte			Result	Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
Field Analysis											
Analyst:	NA	pH:	7.92	Flow (g/min):	NA	Res. Cl	(mg/L):	3.3	GW Elev.(ft):	NA	
Temp. (C):	16.4	Turb. (ntu):	NA	D.O. (mg/L):	NA	Cond. (	umhos/cm):	NA	LEL (%):	NA	
ORP (mV):	NA	Volume (L):	NA	Flow (g/day):	NA	Salinity	(ppt):	NA	Ambient Temp	o. (°C):	NA
Mianahialagy				Microba	ac Laborator	ries, Inc Ba	ltimore				

Microbiology								
Coliform, Total	Negative	per 100ml	1.0	111616 1515	111716 0922	QLW	SM 9223B Colilert	
E. Coli	Negative	per 100ml	1.0	111616 1515	111716 0922	QLW	SM 9223B Colilert	

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Coliform, Total

E. Coli

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#### **CERTIFICATE OF ANALYSIS**

Inspection Experts, Inc Report: 16K1006 Project: WNY Reported: 11/21/2016 11:05 9220 Rumsey Rd., Bay # 5 Project Number: 15-0011-214

Columbia, MD 21045 Project Manager: Kosala De Silva

Negative

Negative

#### **WNY-183**

#### 16K1006-04 (Drinking Water) Sampled: 11/16/2016 10:25; Type: Grab

				Reporting							
Analyte			Result	Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
Field Analysis	<u>i</u>										
Analyst:	NA	pH:	7.34	Flow (g/min):	NA	Res. Cl	(mg/L):	3.1	GW Elev.(	ft): NA	
Temp. (C):	21.2	Turb. (ntu):	NA	D.O. (mg/L):	NA	Cond.	(umhos/cm):	NA	LEL (%):	NA	
ORP (mV):	NA	Volume (L):	NA	Flow (g/day):	NA	Salinity	y (ppt):	NA	Ambient T	Cemp. (°C):	NA
				Microba	ac Laboratori	es, Inc B	altimore				
Microbiology											
Coliform, Tota	al	]	Negative		per 100ml	1.0	111616 1515	111716 0922	QLW	SM 9223B Coliler	t

1.0

1.0

per 100ml

Microbac Laboratories, Inc. - Baltimore

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

111716 0922

QLW

SM 9223B Colilert

111616 1515

Page 6 of 14 Curtis B. Read, Project Manager **Original Report** 



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#### **CERTIFICATE OF ANALYSIS**

 Inspection Experts, Inc
 Project: WNY
 Report: 16K1006

 9220 Rumsey Rd., Bay # 5
 Project Number: 15-0011-214
 Reported: 11/21/2016 11:05

Columbia, MD 21045 Project Manager: Kosala De Silva

#### **WNY-118**

#### 16K1006-05 (Drinking Water) Sampled: 11/16/2016 11:00; Type: Grab

				Reporting							
Analyte			Result	Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
Field Analysis											
Analyst:	NA	pH:	7.78	Flow (g/min):	NA	Res. Cl	(mg/L):	3.4	GW Elev.(ft):	NA	
Temp. (C):	19.6	Turb. (ntu):	NA	D.O. (mg/L):	NA	Cond.	(umhos/cm):	NA	LEL (%):	NA	
ORP (mV):	NA	Volume (L):	NA	Flow (g/day):	NA	Salinity	(ppt):	NA	Ambient Temp	o. (°C):	NA
Microbiology				Microba	ac Laboratori	ies, Inc Ba	altimore				

Microbiology							
		400.1					CM 0222D C I'l
Coliform, Total	Negative	per 100ml	1.0	111616 1515	111716 0922	QLW	SM 9223B Colilert
E. Coli	Negative	per 100ml	1.0	111616 1515	111716 0922	QLW	SM 9223B Colilert

Microbac Laboratories, Inc. - Baltimore

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#### **CERTIFICATE OF ANALYSIS**

Inspection Experts, Inc Project: WNY Report: 16K1006

9220 Rumsey Rd., Bay # 5 Project Number: 15-0011-214
Columbia, MD 21045 Project Manager: Kosala De Silva

Reported: 11/21/2016 11:05

#### WNY-175

#### 16K1006-06 (Drinking Water) Sampled: 11/16/2016 11:40; Type: Grab

				Reporting							
Analyte			Result	Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
Field Analysis	ļ.										
Analyst:	NA	pH:	7.69	Flow (g/min):	NA	Res. C	Cl (mg/L):	2.2	GW Elev.(ft	): NA	
Temp. (C):	19.4	Turb. (ntu):	NA	D.O. (mg/L):	NA	Cond.	(umhos/cm):	NA	LEL (%):	NA	
ORP (mV):	NA	Volume (L):	NA	Flow (g/day):	NA	Salinit	ty (ppt):	NA	Ambient Te	mp. (°C):	NA
				Microba	ac Laboratori	es, Inc E	Baltimore				
Microbiology											
Coliform, Tota	al	]	Negative		per 100ml	1.0	111616 1515	111716 0922	QLW	SM 9223B Colilert	
E. Coli		]	Negative		per 100ml	1.0	111616 1515	111716 0922	QLW	SM 9223B Colilert	

Microbac Laboratories, Inc. - Baltimore

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#### **CERTIFICATE OF ANALYSIS**

 Inspection Experts, Inc
 Project: WNY
 Report: 16K1006

 9220 Rumsey Rd., Bay # 5
 Project Number: 15-0011-214
 Reported: 11/21/2016 11:05

Columbia, MD 21045 Project Manager: Kosala De Silva

#### **WNY-212**

#### 16K1006-07 (Drinking Water) Sampled: 11/16/2016 08:52; Type: Grab

				Reporting							
Analyte			Result	Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
Field Analysis											
Analyst:	NA	pH:	7.84	Flow (g/min):	NA	Res. Cl	(mg/L):	3.3	GW Elev.(ft):	NA	
Temp. (C):	18.6	Turb. (ntu):	NA	D.O. (mg/L):	NA	Cond. (	umhos/cm):	NA	LEL (%):	NA	
ORP (mV):	NA	Volume (L):	NA	Flow (g/day):	NA	Salinity	(ppt):	NA	Ambient Temp	o. (°C):	NA
				Microba	ac Laboratori	ies, Inc Ba	lltimore				

Micro	bio	logy	

Coliform, Total	Negative	per 100ml	1.0	111616 1515	111716 0922	QLW	SM 9223B Colilert
E. Coli	Negative	per 100ml	1.0	111616 1515	111716 0922	QLW	SM 9223B Colilert

Microbac Laboratories, Inc. - Baltimore

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#### **CERTIFICATE OF ANALYSIS**

 Inspection Experts, Inc
 Project: WNY
 Report: 16K1006

 9220 Rumsey Rd., Bay # 5
 Project Number: 15-0011-214
 Reported: 11/21/2016 11:05

Columbia, MD 21045 Project Manager: Kosala De Silva

#### **WNY-218**

#### 16K1006-08 (Drinking Water) Sampled: 11/16/2016 08:24; Type: Grab

				Reporting							
Analyte			Result	Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
Field Analysis											
Analyst:	NA	рН:	7.95	Flow (g/min):	NA	Res. Cl	(mg/L):	2.8	GW Elev.(ft):	NA	
Temp. (C):	18.6	Turb. (ntu):	NA	D.O. (mg/L):	NA	Cond.	(umhos/cm):	NA	LEL (%):	NA	
ORP (mV):	NA	Volume (L):	NA	Flow (g/day):	NA	Salinity	(ppt):	NA	Ambient Temp	o. (°C):	NA
Microbiology				Microba	nc Laboratori	ies, Inc B	altimore				

VII	<u>cr</u>	obi	101	ogy	<u> </u>

Coliform, Total	Negative	per 100ml	1.0	111616 1515	111716 0922	QLW	SM 9223B Colilert
E. Coli	Negative	per 100ml	1.0	111616 1515	111716 0922	QLW	SM 9223B Colilert

Microbac Laboratories, Inc. - Baltimore

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#### **CERTIFICATE OF ANALYSIS**

Inspection Experts, Inc Project: WNY Report: 16K1006
9220 Rumsey Rd., Bay # 5 Project Number: 15-0011-214 Reported: 11/21/2016 11:05
Columbia, MD 21045 Project Manager: Kosala De Silva

#### **Project Requested Certification(s):**

A2LA (Environmental)

State of Maryland (Drinking Water)

#### Analyte Certification Exception Summary

No certification exceptions

All analysis performed were analyzed under the required certification unless otherwise noted in the above summary.

#### **Certification List**

Below is a list of certifications maintained by Microbac Laboratories, Inc. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. A complete list of individual analytes pursuant to each certification below is available upon request.

Code	Description	Certification Number	Expires
Microbac La	boratories, Inc Baltimore		
A2LA1	A2LA (Biology)	410.02	04/30/2017
A2LA2	A2LA (Environmental)	410.01	04/30/2017
VA-B	Commonwealth of Virginia (NELAC) - Baltimore	460285	03/14/2017
CPSC	CPSC Testing of Childrens Products and Jewelry	1115	04/30/2017
Pb	Environmental Lead (ELLAP)	410.01	04/30/2017
MD	State of Maryland (Drinking Water)	109	06/30/2017
WV	West Virginia	054	08/31/2017
Microbac La	boratories, Inc Richmond		
VA-R	Commonwealth of Virginia (NELAC) - Richmond	460022	06/14/2017

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 Inspection Experts, Inc
 Project: WNY
 Report: 16K1006

 9220 Rumsey Rd., Bay # 5
 Project Number: 15-0011-214
 Reported: 11/21/2016 11:05

9220 Rumsey Rd., Bay # 5 Project Number: 15-0011-214
Columbia, MD 21045 Project Manager: Kosala De Silva

O -1'C' - --/NI -4 - - - - - 1 TO - C' -'4' - -

#### **Qualifiers/Notes and Definitions**

#### General Definitions:

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference



### **Baltimore Division**

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Phone: 410-633-1800 Fax: 410-633-6553 www.microbac.com

# **Cooler Receipt Log**

Cooler ID: Default Cooler		Cooler Temp: 1.80°C Work Order: 16K1006
Custody Seals Intact:	Yes	COC/Containers Agree: Yes
Containers Intact:	Yes	Correct Preservation: Yes
Received On Ice:	Yes	Correct Number of Containers Received: Yes
Radiation Scan Acceptable:	Yes	Sufficient Sample Volume for Testing: Yes
COC Present:	Yes	Samples Received in Proper Condition: Yes

**Comments:** 

MICROBAC\* 2101 Van Deman St, Baltimore, MD 21224
Tel: 410-633-1800

Chain of Custody Record

Page 1 of 1

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	•	ON (				QC Pacakge	Level I	Level II**	Level III**	B/6  D/**	<u> </u>	$\langle \chi \rangle$									Archive	Printed Name/Milletlop	14/1/1	Printed Name/Affillation		Printed Name/Affiletion	Page 1 of 1
Compliance		) <b>Yes</b> ()	Agency:	:		\ \ \ \	•	0	0			(3°) ərufarəqməT		13	16.4	212	<b>A B</b>	19.4	18.6	9.81	 [ ] Return [ ] A	nature)	N	nature)		Received for Lab By (signature)	Pa
		RUSH*						nc net			nalysis	Total CI (mg/L)	3.6	3.4	3.3	<del>                                     </del>		2.2	3.3	2.8	appropriate	Received By (signature)		Received By (signature)	:	ived for Lab	
e de la constant de l	ב ב	Standard	i.			tions		kosala@ieinc.net			Requested Analysis	На	181	80 ا	7,92	1.34	7.78	84. ٦	184	29.7	X ] Dispose as appropriate	_	200	Rece		Rece	CEIPT
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Project Information	lar.	WNY	Number: 15-0011-214				Gayan Kularathne	Phone: 240-252-0841	Cert ID:*** 0697GK			Date Collected	11/16/16	11/16/16	11/16/16	11/16/16	11/16/16	11/16/16	11/16/16	11/16/16	] Radioactive	Printed Name/Affiliation	Garpen	Printed Name/Affiliation		Printed Name/Affillation	WHITE -
rt Infin	 = :	Name: WNY	mber:	Ö	ا <u>ا</u>	jā L	Name:	hone:	10:	֓֟֝֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֓֓֓֓֓֓֡֓֓֡֓֡		Filtered									] snop						r certifi
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			lay #5									****xittsM	MO	DW	MO	MO	MO	MO	MG	MO	Hazardous	Sampled By (algnature)	Anth	Relinquished By (signature)	Pollingal	nelinquished by (signature)	ckages
je j		Name: Inspection Experts Inc	Address: 9220 Rumsey Road, Bay #5	Columbia, MD 21045	t		Name: Kosala De Silva	Number: 410-715-3939	Email: kosala@jeinc.net			Client Sample ID		2	9		8	521-	2	8	Possible Hazard Identification	Number of Containers:	lumber: ( ; G0/	Temp upon receipt(°C): // √ C	Sample Received on Ice or	Redigion Sean Asseptable Yes TNO	* Please notify lab prior to drop off.  ** Surcharge May Apply to add" QC Packages *** Sampler certification ID needed for some agencies.  *** Surcharge May Apply to add" QC Packages *** Sampler certification ID needed for some agencies.
T Customer	}	Name	Address		_ L		Nam	Numbe	Emai	_[			WNY-33	WNY-122	WNY-166	WNY-183	WNY-118	WNY-YNW	WNY-212	WNY-218	Possible	Number	Cooler Number:	Temp up	Sample	Rediation	* Please



# Baltimore Division 2101 Van Deman Street • Baltimore, MD 21224

Phone: 410-633-1800 Fax: 410-633-6553 www.microbac.com

November 07, 2016 Report No.: 16K0430

#### **COVER LETTER**

Kosala De Silva Inspection Experts, Inc 9220 Rumsey Rd., Bay # 5 Columbia, MD 21045

RE: WNY

The report of analyses contains test results for samples received at Microbac Laboratories, Inc., Baltimore Division on 11/04/2016 11:55.

The enclosed results were obtained from and applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted.

All data included in this report has been reviewed and meet the applicable project and certification specific requirements, unless otherwise noted.

This report has been paginated in its entirety and shall not be reproduced except in full, without the written approval of Microbac Laboratories, Inc.

We appreciate the opportunity to service your analytical needs. If you have any questions, please feel free to contact us.

This Data Package contains the following:

- This Cover Page
- Sample Summary
- Test Results
- Certifications/Notes and Definitions
- Cooler Receipt Log
- Chain of Custody

Tinal report reviewed by:

Curtis B. Read/Project Manager

Report issue date

All samples received in proper condition and results conform to ISO 17025 and TNI NELAC standards unless otherwise noted.

If we have not met or exceeded your expectations, please contact Curtis B. Read/Project Manager at 410-633-1800. You may also contact Trevor Boyce, President at <a href="mailto:trevor.boyce@microbac.com">trevor.boyce@microbac.com</a>



**Baltimore Division** 

2101 Van Deman Street • Baltimore, MD 21224

Phone: 410-633-1800 Fax: 410-633-6553 www.microbac.com

#### **CERTIFICATE OF ANALYSIS**

Inspection Experts, Inc 9220 Rumsey Rd., Bay # 5 Columbia, MD 21045 Project: WNY
Project Number: 15-0011-214
Project Manager: Kosala De Silva

Report: 16K0430

Reported: 11/07/2016 12:18

#### **SAMPLE SUMMARY**

Sample ID	Laboratory ID	Matrix	Type	Date Sampled	Date Received
WNY-70 (Upstream)	16K0430-01	Drinking Water	Grab	11/04/2016 10:02	11/04/2016 11:55
WNY-111	16K0430-02	Drinking Water	Grab	11/04/2016 07:53	11/04/2016 11:55
WNY-33 (Downstream)	16K0430-03	Drinking Water	Grab	11/04/2016 08:13	11/04/2016 11:55
WNY-183 (Upstream)	16K0430-04	Drinking Water	Grab	11/04/2016 09:29	11/04/2016 11:55
WNY-105	16K0430-05	Drinking Water	Grab	11/04/2016 09:04	11/04/2016 11:55
WNY-22 (Downstream)	16K0430-06	Drinking Water	Grab	11/04/2016 08:38	11/04/2016 11:55

Microbac Laboratories, Inc. - Baltimore

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Curtis B. Read, Project Manager Original Report Page 2 of 13



#### **Baltimore Division**

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16K0430 Reported: 11/07/2016 12:18

Report:

#### **CERTIFICATE OF ANALYSIS**

Inspection Experts, Inc Project: WNY 9220 Rumsey Rd., Bay # 5 Project Number: 15-0011-214

Columbia, MD 21045 Project Manager: Kosala De Silva

#### WNY-70 (Upstream)

#### 16K0430-01 (Drinking Water) Sampled: 11/04/2016 10:02; Type: Grab

				Reporting							
Analyte			Result	Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
Field Analysis											
Analyst:	NA	рН:	7.78	Flow (g/min):	NA	Res. Cl	(mg/L):	0.55	GW Elev.(ft):	NA	
Temp. (C):	21.5	Turb. (ntu):	NA	D.O. (mg/L):	NA	Cond. (	(umhos/cm):	NA	LEL (%):	NA	
ORP (mV):	NA	Volume (L):	NA	Flow (g/day):	NA	Salinity	(ppt):	NA	Ambient Temp	. (°C):	NA
Microbiology	NA	volume (L).	IVA		ac Laborator			NA .	Ambient Temp	. ( ).	IVA

Microbiology								
C-1:f T-4-1	Namadina	per 100ml	1.0	110416 1720	110516 1200	OLW	SM 9223B Colilert	
Coliform, Total	Negative	per roomi	1.0	110410 1720	110310 1200	QLW	SWI 7223B Connect	
E. Coli	Negative	per 100ml	1.0	110416 1720	110516 1200	QLW	SM 9223B Colilert	

Microbac Laboratories, Inc. - Baltimore

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Page 3 of 13 Curtis B. Read, Project Manager **Original Report** 



#### **Baltimore Division**

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#### **CERTIFICATE OF ANALYSIS**

 Inspection Experts, Inc
 Project: WNY
 Report:
 16K0430

 9220 Rumsey Rd., Bay # 5
 Project Number: 15-0011-214
 Reported:
 11/07/2016 12:18

Columbia, MD 21045 Project Manager: Kosala De Silva

#### WNY-111

#### 16K0430-02 (Drinking Water) Sampled: 11/04/2016 07:53; Type: Grab

Analyte Result Limit Units  Field Analysis	Limits Prepared	Analyzed Analyst Method Notes
7.00		
Analyst: NA pH: 7.99 Flow (g/min): NA	<b>Res. Cl (mg/L):</b> 2.5	9 GW Elev.(ft): NA
Temp. (C): 19.4 Turb. (ntu): NA D.O. (mg/L): NA	Cond. (umhos/cm): Na	A LEL(%): NA
ORP (mV): NA Volume (L): NA Flow (g/day): NA	Salinity (ppt): NA	A Ambient Temp. (°C): NA

Microbiology								
		400 1					GM 0222D G 171	
Coliform, Total	Negative	per 100ml	1.0	110416 1720	110516 1200	QLW	SM 9223B Colilert	
E. Coli	Negative	per 100ml	1.0	110416 1720	110516 1200	QLW	SM 9223B Colilert	

Microbac Laboratories, Inc. - Baltimore

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Curtis B. Read, Project Manager Original Report Page 4 of 13



#### **Baltimore Division**

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#### **CERTIFICATE OF ANALYSIS**

Inspection Experts, IncProject: WNYReport:16K04309220 Rumsey Rd., Bay # 5Project Number: 15-0011-214Reported:11/07/2016 12:18

Columbia, MD 21045 Project Manager: Kosala De Silva

#### WNY-33 (Downstream)

#### 16K0430-03 (Drinking Water) Sampled: 11/04/2016 08:13; Type: Grab

				Reporting							
Analyte			Result	Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
Field Analysis											
Analyst:	NA	pH:	7.89	Flow (g/min):	NA	Res. Cl	(mg/L):	3.4	GW Elev.(ft):	NA	
Temp. (C):	19.3	Turb. (ntu):	NA	D.O. (mg/L):	NA	Cond. (	umhos/cm):	NA	LEL (%):	NA	
ORP (mV):	NA	Volume (L):	NA	Flow (g/day):	NA	Salinity	(ppt):	NA	Ambient Temp	p. (°C):	NA
				Microba	nc Laboratori	ies, Inc Ba	altimore				
Microbiology											

Microbiology								
		400 1			440.545.4500		GM 0000D G 171	
Coliform, Total	Negative	per 100ml	1.0	110416 1720	110516 1200	QLW	SM 9223B Colilert	
E. Coli	Negative	per 100ml	1.0	110416 1720	110516 1200	QLW	SM 9223B Colilert	

Microbac Laboratories, Inc. - Baltimore

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Curtis B. Read, Project Manager Original Report Page 5 of 13



#### **Baltimore Division**

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#### **CERTIFICATE OF ANALYSIS**

 Inspection Experts, Inc
 Project: WNY
 Report: 16K0430

 9220 Rumsey Rd., Bay # 5
 Project Number: 15-0011-214
 Reported: 11/07/2016 12:18

Columbia, MD 21045 Project Manager: Kosala De Silva

#### WNY-183 (Upstream)

#### 16K0430-04 (Drinking Water) Sampled: 11/04/2016 09:29; Type: Grab

				Reporting							
Analyte			Result	Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
Field Analysis											
Analyst:	NA	pH:	7.84	Flow (g/min):	NA	Res. Cl	(mg/L):	2.5	GW Elev.(ft):	NA	
Temp. (C):	21.5	Turb. (ntu):	NA	D.O. (mg/L):	NA	Cond. (	(umhos/cm):	NA	LEL (%):	NA	
ORP (mV):	NA	Volume (L):	NA	Flow (g/day):	NA	Salinity	(ppt):	NA	Ambient Temp	o. (°C):	NA
ORP (mV):	NA	Volume (L):	NA		NA ac Laborator			NA	Ambient Temp	o. (°C):	NA
Microbiology											

Microbiology								-
Coliform, Total	Negative	per 100ml	1.0	110416 1720	110516 1200	QLW	SM 9223B Colilert	
E. Coli	Negative	per 100ml	1.0	110416 1720	110516 1200	QLW	SM 9223B Colilert	

Microbac Laboratories, Inc. - Baltimore

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Curtis B. Read, Project Manager Original Report Page 6 of 13



#### **Baltimore Division**

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#### **CERTIFICATE OF ANALYSIS**

Inspection Experts, Inc Project: WNY Report: 16K0430 Reported: 11/07/2016 12:18 9220 Rumsey Rd., Bay # 5 Project Number: 15-0011-214 Columbia, MD 21045

Project Manager: Kosala De Silva

#### WNY-105

#### 16K0430-05 (Drinking Water) Sampled: 11/04/2016 09:04; Type: Grab

				Reporting							
Analyte			Result	Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
Field Analysis											
Analyst:	NA	pH:	7.96	Flow (g/min):	NA	Res. C	Cl (mg/L):	3.2	GW Elev.(ft	e): NA	
Temp. (C):	19.3	Turb. (ntu):	NA	D.O. (mg/L):	NA	Cond	. (umhos/cm):	NA	LEL (%):	NA	
ORP (mV): NA		Volume (L):	NA	Flow (g/day):	NA	Salini	ty (ppt):	NA	Ambient Te	mp. (°C):	NA
				Microba	ac Laboratori	es, Inc l	Baltimore				
Microbiology											
Coliform, Tota	ıl		Positive		per 100ml	1.0	110416 1720	110516 1200	QLW	SM 9223B Colilert	
E. Coli		1	Negative		per 100ml	1.0	110416 1720	110516 1200	QLW	SM 9223B Colilert	

Microbac Laboratories, Inc. - Baltimore

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Page 7 of 13 Curtis B. Read, Project Manager **Original Report** 



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## **CERTIFICATE OF ANALYSIS**

 Inspection Experts, Inc
 Project: WNY
 Report:
 16K0430

 9220 Rumsey Rd., Bay # 5
 Project Number: 15-0011-214
 Reported:
 11/07/2016 12:18

Columbia, MD 21045 Project Manager: Kosala De Silva

#### WNY-22 (Downstream)

### 16K0430-06 (Drinking Water) Sampled: 11/04/2016 08:38; Type: Grab

				Reporting							
Analyte			Result	Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
Field Analysis											
Analyst:	NA	pH:	7.99	Flow (g/min):	NA	Res. Cl	(mg/L):	2.9	GW Elev.(ft):	NA	
Temp. (C):	20.2	Turb. (ntu):	NA	D.O. (mg/L):	NA	Cond. (	Cond. (umhos/cm):		NA <b>LEL (%)</b> :		
ORP (mV):	NA	Volume (L):	NA	Flow (g/day):	NA	Salinity	(ppt):	NA	Ambient Tem	p. (°C):	NA
Microbiology					ac Laboratori						

Microbiology								
Coliform, Total	Negative	per 100ml	1.0	110416 1720	110516 1200	QLW	SM 9223B Colilert	
E. Coli	Negative	per 100ml	1.0	110416 1720	110516 1200	QLW	SM 9223B Colilert	

Microbac Laboratories, Inc. - Baltimore

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Curtis B. Read, Project Manager Original Report Page 8 of 13



**Baltimore Division** 

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Phone: 410-633-1800 Fax: 410-633-6553 www.microbac.com

### **CERTIFICATE OF ANALYSIS**

Inspection Experts, IncProject: WNYReport:16K04309220 Rumsey Rd., Bay # 5Project Number: 15-0011-214Reported:11/07/2016 12:18Columbia, MD 21045Project Manager: Kosala De Silva

### **Project Requested Certification(s):**

A2LA (Environmental)

State of Maryland (Drinking Water)

#### Analyte Certification Exception Summary

No certification exceptions

All analysis performed were analyzed under the required certification unless otherwise noted in the above summary.

#### **Certification List**

Below is a list of certifications maintained by Microbac Laboratories, Inc. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. A complete list of individual analytes pursuant to each certification below is available upon request.

Code	Description	Certification Number	Expires
Microbac La	boratories, Inc Baltimore		
A2LA1	A2LA (Biology)	410.02	04/30/2017
A2LA2	A2LA (Environmental)	410.01	04/30/2017
VA-B	Commonwealth of Virginia (NELAC) - Baltimore	460285	03/14/2017
CPSC	CPSC Testing of Childrens Products and Jewelry	1115	04/30/2017
Pb	Environmental Lead (ELLAP)	410.01	04/30/2017
MD	State of Maryland (Drinking Water)	109	06/30/2017
WV	West Virginia	054	08/31/2017
Microbac La	boratories, Inc Richmond		
VA-R	Commonwealth of Virginia (NELAC) - Richmond	460022	06/14/2017

Microbac Laboratories, Inc. - Baltimore

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Curtis B. Read, Project Manager Page 9 of 13



**Baltimore Division** 

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### **CERTIFICATE OF ANALYSIS**

 Inspection Experts, Inc
 Project: WNY
 Report:
 16K0430

 9220 Rumsey Rd., Bay # 5
 Project Number: 15-0011-214
 Reported:
 11/07/2016 12:18

Columbia, MD 21045 Project Manager: Kosala De Silva

# Qualifiers/Notes and Definitions

#### General Definitions:

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference



# **Baltimore Division**

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# **Cooler Receipt Log**

Cooler ID: Default Cooler		Cooler Temp: 0.40°C Work Order: 16K0430
Custody Seals Intact:	Yes	COC/Containers Agree: Yes
Containers Intact:	Yes	Correct Preservation: Yes
Received On Ice:	Yes	Correct Number of Containers Received: Yes
Radiation Scan Acceptable:	Yes	Sufficient Sample Volume for Testing: Yes
COC Present:	Yes	Samples Received in Proper Condition: Yes

**Comments:** 

2101 Van I Microbac Laboratories Inc., Baltimore Division

Instructions for completing the Chain of Custody Record on back.

Page 1 of 1

Page 12 of 13

Tel: 410-633-1800	2101 Van Deman St, Baltimore, MD 21224
Chain of Custody Record	

ائـ	R ?	D CS	1 C	Z	اج			8	5	٤	٤	5	8		_	>	-	$\neg$		Α		٦
Please notify lab prior to drop off.		Sample Received on Ice or Refrigerated from Client: Yes No	Cooler Number: { Temp upon receipt(°C): (^7), 4 6	Number of Containers:	Possible Hazard Identification		÷	NNY-22 (Downstream)	WNY-105	WNY-183 (Upstream)	WNY-33 (Downstream)	WNY-111	WNY-70 (Upstream)	Client Sample ID	Email: kosala@ieinc.net	Number: 410-715-3939	Name: Kosala De Silva	Contact	Columbia, MD 21045	Address: 9220 Rumsey Road, Bay #5	Name: Inspection Experts Inc.	Customer
0		Relinguished By (signature)	Ballingers fied By	Sampled By (signature)	] Hazardous [			DW	DW	DW	DW	DW	DW	Matrix****						3ay #5		
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		ture)	ure)		Non-Hazardous	+	+					$\vdash$		Filtered	10:	Phone:	Name:	Sampler -	PO:	Number:	Name:	ect Inf
WHITE		Printed Name Affiliation	Printed Name/Affiliation	Printed Name/Affiliation	[ ] Radioactive			11/04/16	11/04/16	11/04/16	11/04/16	11/04/16	11/04/16	Date Collected	Cert ID:*** 0697GK	240-252-0841	: Gayan Kularathne		Ī	15-0011-214	YNW	Project Information
WHITE - ORIGINAL LAB		APEENE Mation	Ku laye Mu	llation				0838	4060	0929	0813	0753	1002	Time Collected			hne					
. É					Sample Disposition			->	4		-		-	No. of Containers								
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IPT	_	300	10000	1000	spose			7.99	57	1 ·8	7.8	1.0	31.78	pH		kosala@leinc.net		Suc			a C	Time
		ecely	ecely	ecelv	as ap	-	+	_	96	.848	89	.99	-	pH ested Analysis Temp (°C)		@ieinc					○ ~	1
		Received for	Received By (signature)	Received By (signature	ose as appropriate			20.2	19:3	21.5	19.3	4.01	21.5	Temp (°C)		net					RUSH*	l
	Service and Servic	Lab	(Sign	(signa	ate [	+	╁	1		-	1		-							]		
		Lab By (signature)	12	elmis (e)	] Return			2.9	30	25	3.4	2.9	0.55	Total Chlorine (mg/L					$\overline{\Box}$	Agency:	0	Con
ъ		ature)	2000												) (	) (	•	7 1		ncy:	O Yes	Compliance
Page		P	2	Pri	Archive									6	Leve	Level II**		QC Pacakge			O No	
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<sup>\*</sup> Please notify lab prior to drop off.

\*\* Surcharge May Apply to add'l QC Packages

<sup>\*\*\*</sup> Sampler certification ID needed for some agencies.

<sup>\*\*\*\*</sup> Matrix Types: Air(A), Childrens Product(CP), Food(F), Paint(P), Soil/Soild (S), Oil(O), Wipe(WI), Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify)

# Cooler Receipt Form / Sample Acceptance & Noncompliance Form

Microbac Laboratories, Inc., Baltimore Division Control # 606-03 Effective Date: 07/11/2016 Page 1 of 1

Number of Coolers Received:	Receipt Date / Time: 11/04/16 1155
Client: Inspection Experts	Work Order #
Form Completed By: No Willings	Work Order #
	516 1 May
Shipper:	☐ Microbac Client ☐ UPS ☐ FedEx
Custody Tape Intact:	YES/NO/NA
Containers Intact:	XES NO
Sample Received on Ice or refrigerated:	YES / NO / NA
	Infrared (IR) Temperature: 0.4 °C
Radiation Scan:	^
	Negative or N/A mR/hr
Chain of Custody Present with shipment:	YES/NO WALL
Sample Bottle IDs agree with COC:	YES)/NO
Preservation requirements met:	YES / NO / Not Checked
Correct Number of Containers / Sample Volume:	YES)/ NO (If No, contact client immediately)
Headspace in container:	YES / NO (NA )
Type of Sample:	Water Soil Wipes Oil Filter Solid
	Sludge Food Swab Other
Container Type / Quantity:	Studge 1000 Swab Other
A Unpreserved H2SO4 HNO3 HCl NaOH	NaOH/Ascorbic Acid: If preserved pH <2 , pH >10
B - Unpreserved H2SO4 HNO3 HCI NaOH	NaOH/Ascorbic Acid: If preserved pH <2, pH >10 NaOH/Ascorbic Acid If preserved pH <2, pH >10
C - Unpreserved H2SO4 HNO3 HCI NaOH	NaOH/Ascorbic Acid If preserved pH <2 , pH >10
D - Unpreserved H2SO4 HNO3 HCl NaOH	NaOH/Ascorbic Acid If preserved pH <2 , pH >10
E - Unpreserved H2SO4 HNO3 HCI NaOH	NaOH/Ascorbic Acid If preserved pH <2 , pH >10
H - Unpreserved H2SO4 HNO3 HCI NaOH	NaOH/Ascorbic Acid If preserved pH <2 , pH >10
K - Unpreserved H2SO4 HNO3 HCI NaOH	NaOH/Ascorbic Acid If preserved pH <2 , pH >10
L Unpreserved H2SO4 HNO3 HCl NaOH	NaOH/Ascorbic Acid If preserved pH <2, pH >10
MUnpreserved H2SO4 HNO3 HCl NaOH _	NaOH/Ascorbic Acid If preserved pH <2, pH >10
P Unpreserved H2SO4 HNO3 HCl NaOH _	NaOH/Ascorbic Acid If preserved pH <2, pH >10
W Unpreserved H2SO4 HNO3 HCl NaOH	NaOH/Ascorbic Acid If preserved pH <2, pH >10
V Unpreserved HCl HCl / Ascorbic Acid HC	1/NaTHIO (Checked at time of Analysis)
F Unpreserved NaTHIO (Checked at time of Analysis) S Unpreserved NaTHIO (Checked at time of Analysis)	
S - Unpreserved NaTHIO (Checked at time of Analysis) SN- Unpreserved NaTHIO NaTHIO/EDTA (Checked	
	at time of Analysis)
Unpreserved H2SO4 HNO3 HCl NaOH	NaOH/Ascorbic Acid If preserved pH <2, pH >10
Unpreserved H2SO4 HNO3 HCl NaOH	NaOH/Ascorbic Acid If preserved pH <2, pH >10
Unpreserved H2SO4 HNO3 HCl NaOH	NaOH/Ascorbic Acid If preserved pH <2, pH >10
Describe preservation requirements not met:	(11 1 2 2 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2
All Acid preserved < 2 pH NaOH preserved > 12 pH	
Sample ID:         H <sub>2</sub> SO <sub>4</sub> HNO <sub>3</sub> NaOH           Sample ID:         H <sub>2</sub> SO <sub>4</sub> HNO <sub>3</sub> NaOH	mls added
Sample ID: H <sub>2</sub> SO <sub>4</sub> HNO <sub>3</sub> NaOH HNO <sub>3</sub> NaOH	
Sample ID: H <sub>2</sub> SO <sub>4</sub> HNO <sub>3</sub> NaOH HNO <sub>3</sub> NaOH	mls added
H <sub>2</sub> SO <sub>4</sub> – Sulfuric Acid, HNO <sub>3</sub> – Nitric Acid, NaOH – Sodium Hydro	oxide ASC - Ascorbic Acid NaTHIO - Sodium Thiosulfate
Describe Anomalies:	
Contact information / Summary of Actions:	
Date / Time: Contact:	
Comments:	I



Baltimore Division
2101 Van Deman Street • Baltimore, MD 21224

Phone: 410-633-1800 Fax: 410-633-6553 www.microbac.com

November 09, 2016 Report No.: 16K0596

### **COVER LETTER**

Kosala De Silva Inspection Experts, Inc 9220 Rumsey Rd., Bay # 5 Columbia, MD 21045

RE: WNY

The report of analyses contains test results for samples received at Microbac Laboratories, Inc., Baltimore Division on 11/08/2016 12:15.

The enclosed results were obtained from and applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted.

All data included in this report has been reviewed and meet the applicable project and certification specific requirements, unless otherwise noted.

This report has been paginated in its entirety and shall not be reproduced except in full, without the written approval of Microbac Laboratories, Inc.

We appreciate the opportunity to service your analytical needs. If you have any questions, please feel free to contact us.

This Data Package contains the following:

- This Cover Page
- Sample Summary
- Test Results
- Certifications/Notes and Definitions
- Cooler Receipt Log
- Chain of Custody

11/9/2016

Final report reviewed by:

Curtis B. Read/Project Manager

Report issue date

 $All \ samples \ received \ in \ proper \ condition \ and \ results \ conform \ to \ ISO \ 17025 \ and \ TNI \ NELAC \ standards \ unless \ otherwise \ noted.$ 

If we have not met or exceeded your expectations, please contact Curtis B. Read/Project Manager at 410-633-1800. You may also contact Trevor Boyce, President at <a href="mailto:trevor.boyce@microbac.com">trevor.boyce@microbac.com</a>



**Baltimore Division** 

2101 Van Deman Street • Baltimore, MD 21224

Phone: 410-633-1800 Fax: 410-633-6553 www.microbac.com

### **CERTIFICATE OF ANALYSIS**

Inspection Experts, Inc Project: WNY Report: 16K0596
9220 Rumsey Rd., Bay # 5 Project Number: 15-0011-214 Reported: 11/09/2016 11:36
Columbia, MD 21045 Project Manager: Kosala De Silva

#### **SAMPLE SUMMARY**

Sample ID	Laboratory ID	Matrix	Туре	Date Sampled	Date Received
WNY-183 (Upstream)	16K0596-01	Drinking Water	Grab	11/08/2016 09:20	11/08/2016 12:15
WNY-105-1	16K0596-02	Drinking Water	Grab	11/08/2016 08:37	11/08/2016 12:15
WNY-105-2	16K0596-03	Drinking Water	Grab	11/08/2016 08:55	11/08/2016 12:15
WNY-22 (Downstream)	16K0596-04	Drinking Water	Grab	11/08/2016 08:06	11/08/2016 12:15

Microbac Laboratories, Inc. - Baltimore

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Columbia, MD 21045 Project Manager: Kosala De Silva Reported: 11/09/2016 11:36

#### WNY-183 (Upstream)

### 16K0596-01 (Drinking Water) Sampled: 11/08/2016 09:20; Type: Grab

				Reporting							
Analyte			Result	Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
Field Analysis											
Analyst:	NA	pH:	7.92	Flow (g/min):	NA	Res. Cl	(mg/L):	2.4	GW Elev.(ft):	NA	
Temp. (C):	21.6	Turb. (ntu):	NA	D.O. (mg/L):	NA	Cond. (	Res. Cl (mg/L): 2 Cond. (umhos/cm): 1		LEL (%):	NA	
ORP (mV):	NA	Volume (L):	NA	Flow (g/day):	NA	Salinity (ppt):		NA	Ambient Temp	o. (°C):	NA

<u>Microbiology</u>								
Coliform, Total	Negative	per 100ml	1.0	110816 1415	110916 1100	QLW	SM 9223B Colilert	
E. Coli	Negative	per 100ml	1.0	110816 1415	110916 1100	QLW	SM 9223B Colilert	

Microbac Laboratories, Inc. - Baltimore

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### **CERTIFICATE OF ANALYSIS**

 Inspection Experts, Inc
 Project: WNY
 Report: 16K0596

 9220 Rumsey Rd., Bay # 5
 Project Number: 15-0011-214
 Reported: 11/09/2016 11:36

Columbia, MD 21045 Project Manager: Kosala De Silva

#### WNY-105-1

#### 16K0596-02 (Drinking Water) Sampled: 11/08/2016 08:37; Type: Grab

				Reporting							
Analyte			Result	Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
Field Analysis											
Analyst:	NA	pH:	7.99	Flow (g/min):	NA	Res. Cl	(mg/L):	3.1	GW Elev.(ft):	NA	
<b>Temp.</b> (C):	18.5	Turb. (ntu):	NA	D.O. (mg/L):	NA	Cond. (	umhos/cm):	NA	LEL (%):	NA	
ORP (mV):	NA	Volume (L):	NA	Flow (g/day):	NA	Salinity	(ppt):	NA	Ambient Temp	o. (°C):	NA
ORP (mV):	NA	Volume (L):	NA		nA ac Laborator			NA	Ambient Temp	o. (°C):	NA
Microbiology											

Microbiology								
Coliform, Total	Nogotivo	per 100ml	1.0	110816 1415	110916 1100	OLW	SM 9223B Colilert	
Comorni, Iotai	Negative	per roomi	1.0	110010 1413	110910 1100	QLW		
E. Coli	Negative	per 100ml	1.0	110816 1415	110916 1100	QLW	SM 9223B Colilert	

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### **CERTIFICATE OF ANALYSIS**

 Inspection Experts, Inc
 Project: WNY
 Report: 16K0596

 9220 Rumsey Rd., Bay # 5
 Project Number: 15-0011-214
 Reported: 11/09/2016 11:36

Columbia, MD 21045 Project Manager: Kosala De Silva

#### WNY-105-2

#### 16K0596-03 (Drinking Water) Sampled: 11/08/2016 08:55; Type: Grab

				Reporting							
Analyte			Result	Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
Field Analysis											
Analyst:	NA	pH:	7.91	Flow (g/min):	NA	Res. Cl	(mg/L):	3.4	GW Elev.(ft):	NA	
Temp. (C):	18.6	Turb. (ntu):	NA	D.O. (mg/L):	NA	Cond. (1	umhos/cm):	NA	LEL (%):	NA	
ORP (mV):	NA	Volume (L):	NA	Flow (g/day):	NA	Salinity	(ppt):	NA	Ambient Temp	o. (°C):	NA
	Microbac Laboratories, Inc Baltimore										

Microbiology								
Coliform, Total	Negative	per 100ml	1.0	110816 1415	110916 1100	QLW	SM 9223B Colilert	
E Coli	Negative	per 100ml	1.0	110816 1415	110916 1100	OLW	SM 9223B Colilert	

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### **CERTIFICATE OF ANALYSIS**

 Inspection Experts, Inc
 Project: WNY
 Report: 16K0596

 9220 Rumsey Rd., Bay # 5
 Project Number: 15-0011-214
 Reported: 11/09/2016 11:36

Columbia, MD 21045 Project Manager: Kosala De Silva

#### WNY-22 (Downstream)

#### 16K0596-04 (Drinking Water) Sampled: 11/08/2016 08:06; Type: Grab

Analysta			Result	Reporting Limit	Units	Limits	Dramarad	Analyzad	Analyst	Method	Notes
Analyte			Result	LIIIII	Units	Limits	Prepared	Analyzed	Allalyst	Method	Notes
Field Analysis											
Analyst:	NA	pH:	7.95	Flow (g/min):	NA	Res. Cl (	Res. Cl (mg/L):		<b>GW Elev.(ft):</b>	NA	
Temp. (C):	16.9	Turb. (ntu):	NA	D.O. (mg/L):	NA	Cond. (u	mhos/cm):	NA	LEL (%):	NA	
ORP (mV):	NA	Volume (L):	NA	Flow (g/day):	NA	Salinity	Salinity (ppt):		Ambient Temp	o. (°C):	NA
Microbac Laboratories, Inc Baltimore											

Microbiology					
Coliform Total	Negative	per 100ml	1.0	110816 1415	1109

Coliform, Total	Negative	per 100ml	1.0	110816 1415	110916 1100	QLW	SM 9223B Colilert
E. Coli	Negative	per 100ml	1.0	110816 1415	110916 1100	QLW	SM 9223B Colilert

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### **CERTIFICATE OF ANALYSIS**

Inspection Experts, Inc Project: WNY Report: 16K0596
9220 Rumsey Rd., Bay # 5 Project Number: 15-0011-214 Reported: 11/09/2016 11:36
Columbia, MD 21045 Project Manager: Kosala De Silva

### **Project Requested Certification(s):**

A2LA (Environmental)

State of Maryland (Drinking Water)

#### Analyte Certification Exception Summary

No certification exceptions

All analysis performed were analyzed under the required certification unless otherwise noted in the above summary.

#### **Certification List**

Below is a list of certifications maintained by Microbac Laboratories, Inc. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. A complete list of individual analytes pursuant to each certification below is available upon request.

Code	Description	Certification Number	Expires
Microbac La	boratories, Inc Baltimore		
A2LA1	A2LA (Biology)	410.02	04/30/2017
A2LA2	A2LA (Environmental)	410.01	04/30/2017
VA-B	Commonwealth of Virginia (NELAC) - Baltimore	460285	03/14/2017
CPSC	CPSC Testing of Childrens Products and Jewelry	1115	04/30/2017
Pb	Environmental Lead (ELLAP)	410.01	04/30/2017
MD	State of Maryland (Drinking Water)	109	06/30/2017
WV	West Virginia	054	08/31/2017
Microbac La	boratories, Inc Richmond		
VA-R	Commonwealth of Virginia (NELAC) - Richmond	460022	06/14/2017

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Inspection Experts, Inc Project: WNY Report: 16K0596

9220 Rumsey Rd., Bay # 5 Project Number: 15-0011-214
Columbia, MD 21045 Project Manager: Kosala De Silva

Reported: 11/09/2016 11:36

# **Qualifiers/Notes and Definitions**

#### General Definitions:

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference



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# **Cooler Receipt Log**

Cooler ID: Default Cooler		Cooler Temp: -0.20°C Work Order: 16K0596
Custody Seals Intact:	Yes	COC/Containers Agree: Yes
Containers Intact:	Yes	Correct Preservation: Yes
Received On Ice:	Yes	Correct Number of Containers Received: Yes
Radiation Scan Acceptable:	Yes	Sufficient Sample Volume for Testing: Yes
COC Present:	Yes	Samples Received in Proper Condition: Yes

**Comments:** 



Microbac Laboratories Inc., Baltimore Division MICROBAC\* 2101 Van Deman St, Baltimore, MD 21224 Tel: 410-633-1800

# Chain of Custody Record

1	of	1
	1	1 of

Customer Name: Inspection Experts Inc.	www.tjiiCrobac	ĪΓ	Projec		wny	Name of the second second		īſ	11000000000	Aroun	nd Time —	RUSH*	- Com	pliance Yes No	٦	
Address: 9220 Rumsey Road, Bay #5 Columbia, MD 21045				Number: 15-0011-214 PO:					Needed By: Ager				Ager			
Number: 410-715-3939  Email: kosala@ieinc.net			Pi	lame: hone:	Gayan Kulara 240-252-0841 0697GK					ort Opt EDD Email Fax	kosala@iei	nc.net		QC Pacakge  Level II		
Client Sample ID	Matrix****	Grab	Composite	Filtered	Date Collected	Time Collected	No. of Containers	TC P/A SM9223B		R	equested A	nalysis (C) dwa_	Total Chlorine (mg/L	Level IV**		
WNY-183 (Upstream)	DW	Х			11/08/16	0920	1	Х			7.92	21.6	2.4			
WNY-105-1	DW	Х			11/08/16	0837	1	Х			7.99	18-5	3.1			
WNY-105-2	DW	X			11/08/16	0855	1	Х			7.91	18.6	3.4			
WNY-22 (Downstream)	DW	Х			11/08/16	0806	1	Х			7.95	16.9	3.3			
	AND DESCRIPTION OF THE PERSON NAMED IN COLUMN	THE PERSON NAMED IN	Hazaro	dous	[ ] Radioactiv	Annual Control of the	mple [	-	DAMESTING DAY	and the latest designation of	Dispose as	SECURITION OF THE PERSON NAMED IN	THE RESERVE OF THE PERSON NAMED IN	NAME OF TAXABLE PARTY OF TAXABLE PARTY.		
Cooler Number:	Relinquisited B		_	e)	Printed Name/Aff	Kularat		۱۱ Date	Time	و ع	35人	ived By (si		Printed Name/Affiliation  Printed Name/Affiliation  Printed Name/Affiliation	EZNE	
	Relinquished B	y (sig	inatur	e)	Printed Name/Aff	Company of the Address of the Company of the Compan		Date	/Time		Rece	ived for La	b By (signa	Printed Name Affiliation	7 rev.121112	

<sup>\*\*</sup> Surcharge May Apply to add'l QC Packages

<sup>\*\*\*</sup> Sampler certification ID needed for some agencies.

<sup>\*\*\*\*</sup> Matrix Types: Air(A), Childrens Product(CP), Food(F), Paint(P), Soil/Solid (S), Oil(O), Wipe(WI), Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify)

# Cooler Receipt Form / Sample Acceptance & Noncompliance Form

Microbac Laboratories, Inc., Baltimore Division Control # 606-03 Effective Date: 07/11/2016 Page 1 of 1

Number of Coolers Received:  Client: Topection From From Completed By: An hour Smith  Shipper: Custody Tape Intact: Containers Intact: Sample Received on Ice or refrigerated:  Radiation Scan: Chain of Custody Present with shipment: Sample Bottle IDs agree with COC: Preservation requirements met:	Receipt Date / Time: N/08/10 12:15 Work Order #    Microbac   Client   UPS   FedEx YES   NO   NA YES   NO   NA Infrared (IR) Temperature: -1.2 °C   Negative or N/A mR/hr   YES   NO   Not Checked	
Correct Number of Containers / Sample Volume:	YES NO (If No, contact client immediately)	
And the second s		
Headspace in container:	YES/NO/NA)	
Type of Sample:	Water Soil Wipes Oil Filter Solid	
6.	Studge Food Swab Other	
Container Type / Quantity:		
AUnpreserved H2SO4 HNO3 HCl NaOH	NaOH/Ascorbic Acid: If preserved pH <2, pH >10	_
B - Unpreserved H2SO4 HNO3 HCI NaOH	NaOH/Ascorbic Acid If preserved pH <2, pH >10	-
C - Unpreserved H2SO4 HNO3 HCI NaOH	NaOH/Ascorbic Acid If preserved pH <2, pH >10	-
D Unpreserved H2SO4 HNO3 HCl NaOH E Unpreserved H2SO4 HNO3 HCl NaOH	NaOH/Ascorbic Acid If preserved pH <2, pH >10	-
H - Unpreserved H2SO4 HNO3 HCI NaOH Unpreserved H2SO4 HNO3 HCI NaOH	NaOH/Ascorbic Acid If preserved pH <2, pH >10 NaOH/Ascorbic Acid If preserved pH <2, pH >10	-
K - Unpreserved H2SO4 HNO3 HCI NaOH	NaOH/Ascorbic Acid If preserved pH <2 , pH >10 If preserved pH <2 , pH >10	-
L - Unpreserved H2SO4 HNO3 HCl NaOH	NaOH/Ascorbic Acid If preserved pH <2 , pH >10	-
M- Unpreserved H2SO4 HNO3 HCI NaOH	NaOH/Ascorbic Acid If preserved pH <2 , pH >10	-
P - Unpreserved H2SO4 HNO3 HCl NaOH	NaOH/Ascorbic Acid If preserved pH <2 , pH >10	-
WUnpreservedH2SO4HNO3HClNaOH	NaOH/Ascorbic Acid If preserved pH <2 , pH >10	
	1/NaTHIO (Checked at time of Analysis)	
F - Unpreserved NaTHIO (Checked at time of Analysis)		1
S- Unpreserved 4 NaTHIO (Checked at time of Analysis)		
SN Unpreserved NaTHIO NaTHIO/EDTA (Checked	at time of Analysis)	
Unpreserved H2SO4 HNO3 HCl NaOH	NaOH/Ascorbic Acid If preserved pH <2 , pH >10	
Unpreserved H2SO4 HNO3 HCl NaOH	NaOH/Ascorbic Acid If preserved pH <2, pH >10	
Unpreserved H2SO4 HNO3 HCl NaOH	30-20-20-20-20-20-20-20-20-20-20-20-20-20	
Describe preservation requirements not met:		
All Acid preserved <2 pH NaOH preserved >12 pH	All others >2 and <10 (usually 4-8)	
Sample ID: H <sub>2</sub> SO <sub>4</sub> HNO <sub>3</sub> NaOH	mls added	
Sample ID: H <sub>2</sub> SO <sub>4</sub> HNO <sub>3</sub> NaOH L	mis added	
Sample ID: $H_2SO_4$ HNO <sub>3</sub> NaOH Sample ID: $H_2SO_4$ HNO <sub>3</sub> NaOH	mis added	
$H_2SO_4 - Sulfuric Acid, HNO_3 - Nitric Acid, NaOH - Sodium Hydro$		
112004 Sugarie Acia, 111103 Marie Acia, 114011 - Boatam Hyare	wite, ABC - Ascorbic Acid, IvaTIIIO - Boulum Imosuguie	
Describe Anomalies:		
Contact information / Summary of Actions:		
Date / Time: Contact:		
Comments:		